

Name: _____

8th Grade Summer Science Assignment

I. Science Fair Project

Your science fair project will be a MAJOR portion of your first semester grade.

You will need to begin a plan for your science fair project, but you WILL NOT begin the project until your topic has been approved.

Topic/Problem: _____

Why you are choosing this topic or problem:

How you plan to conduct an experiment that will test your topic/problem?

II. Understanding scientific inquiry from an investigation

Pick an episode of Myth Busters (you can stream on Netflix or watch on youtube)

During most episodes, 2-3 science experiments occur to test different myths. I want you to pick one and follow throughout and answer these questions.

Title of Episode _____

1. What warnings do they give to viewers at the beginning of the show?

2. What myth(s) or legend(s) are they investigating?

3. Which myth are you most interested in?

4. What do you hypothesize will be the result?

5. What did they know before they began investigating?
6. What did they do to investigate the myth/legend that you found most interesting?
7. What did they learn from their investigation - confirmed or busted? Why?
8. Identify the safety measures they used to prevent accidents and/or injuries.
9. In your opinion, Are their results reliable? Explain.

III. Test your Own Myth/Claim

Research a product claim from an advertisement or a “myth” you have heard about something. Plan and conduct an experiment to test the claim of that product. Be prepared to explain each of the following:

1. What is the product myth/claim you chose?
2. Where did you first hear about this myth/claim?
3. Before your experiment, do you believe this claim or myth to be valid?
4. How did you decide to test this claim/myth?
5. Collect data to carefully analyze for your conclusion (this should be done in a table, chart, graph)
6. Present your conclusion